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FEB -5 2002
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1. (Amended) A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a stemless humeral head for coupling to a cut humeral surface, wherein the humeral head includes a base having a rotationally-stabilizing [stabilizing] base extension protruding therefrom for impaction into a cancellous region of the cut humeral surface.

8. (Amended) A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a stemless humeral head for coupling to a previously cut humeral surface, wherein the humeral head includes a base having a non stem-bearing, rotationally-stabilizing [stabilizing] base extension protruding therefrom for impaction into a cancellous region of the cut humeral surface.

16. (Amended) A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a stemless humeral head for coupling to a cut humeral surface, wherein the humeral head includes a base having a rotationally-stabilizing [stabilizing] base extension protruding therefrom for impaction into a cancellous, non-intramedullary region of the cut humeral surface.

23. (Amended) A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a humeral head for coupling to a cut humeral surface, wherein the humeral head includes a base having a rotationally-stabilizing [stabilizing] base extension protruding therefrom for impaction into a cancellous region of the cut humeral surface, and wherein the base extension is confined to protrude only into a ball region of the humerus, to which the humeral head couples, and which is above an elongate region of the humerus.

24. (Amended) A total shoulder arthroplasty apparatus for recreating an anatomic proximal humeral configuration, comprising:

a humeral head for coupling to a cut humeral surface, wherein the humeral head includes a base having a rotationally-stabilizing [stabilizing] base extension protruding therefrom for impaction into a cancellous region of the cut humeral surface, and wherein the extension is nonintrusive of an elongate humeral region below a humeral ball region including the humeral head.